

Charles Pitts Jr.

## Charles Pitts Is New Foreman

The Utilities Administration Department announces the December 1 promotion of Charles Pitts Jr., to utilities foreman.

Pitts, who came to Y-12 October 6, 1954, attended Maryville College. He is a veteran of the U.S. Air Force serving from 1943 until 1945. He worked at the Caudill Lumber Company, Ermine, Kentucky; and the Jackson Furniture Company, Neon, Kentucky, before coming here. He was born in Whitesburg.

The Pitts live at 605 Patton Ferry Road, Kingston. They have a married son, C. Edward Pitts, who is a first lieutenant now in the Air Force. Mrs. Pitts is the former Jaunita Stacey.

Golfing occupies a lot of Pitts' spare time.

## Graduate School Registers Now!

The Oak Ridge Resident Graduate school of the University of Tennessee is currently accepting early registration for the Winter Quarter, which begins January 5.

Registration is taking place up until Friday, December 19, and will resumed again January 5-6 for the current calendar. Office hours are from 10 a.m. to 6 p.m. and post-dated checks will be accepted according to the Registrar.

Courses offered by the program are support by the U.S. Atomic Energy Commission and approved by the Carbide Education Assistance Program.

New life science courses have been added . . . Microbiology, Zoology 4280, 4390 and 5350 are being offered this quarter in addition to the usual Physical Science, Mathematics, Engineering and Management courses.

## NEW METHODS

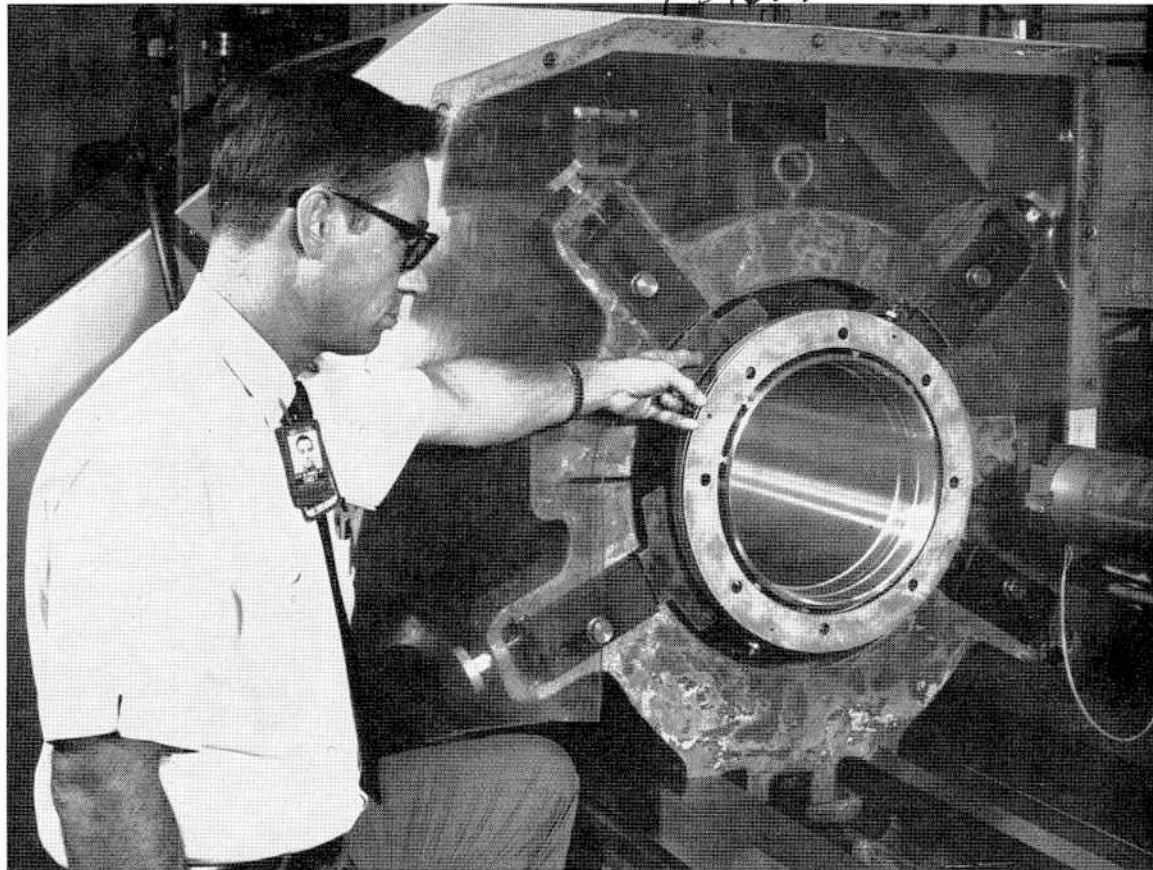
These days they are making almost everything wrinkle-resistant . . . everything, that is, but people.

## Agro-Industrial Complex In Film

"No Greater Challenge," a lay-level motion picture outlining the future of nuclear energy in reclaiming the world's deserts for agriculture, is being made available for free loan to the public through the Atomic Energy Commission's film library here.

The 14-minute color film shows man's historic and growing need for water and offers a dramatic solution to this great challenge—the agro-industrial complex. With nuclear reactors as the energy source and desalting plants as the fresh water source, the film explains, today's coastal deserts could be transformed into self-sustaining, mammoth nuclear powered agro-industrial centers consisting of farms and industrial plants.

The movie may be borrowed free of charge, except for return postage, from the Motion Picture Film Library at the local AEC offices.



**FOUR EQUALLY SPACED**, adjustable, air bearing steady rests are used to support a light weight fixture for a specialized machining operation in Y-12. The steady rest uses a special porous graphite to provide a thermally stable, vibration-free support without wear to the fixture running surface. N. B. Bloomer, Beta Four Heavy Machine Shop, is seen with the development above.

## Machining System Is Developed

Union Carbide machine tool engineers at Y-12 have developed an air bearing steady rest system for use in special machining operations where extreme accuracy at high cutting speed is required.

The new system permits surface speeds as high as 4,000 feet per minute without malfunction or loss of accuracy. Improvements over conventional ball bearing steady rest systems have been observed in machining time, surface finish and machine maintenance.

The purpose of a steady rest system is to provide stability to a support fixture which holds a workpiece in place during a machining operation. Although conventional ball bearing steady rest systems are satisfactory for low-speed machining operations, they tend to overheat and to vibrate excessively during high-speed operations.

The air bearing steady rest system developed at Y-12 uses a special porous graphite which provides a thermally stable, vibration-free support without wear to

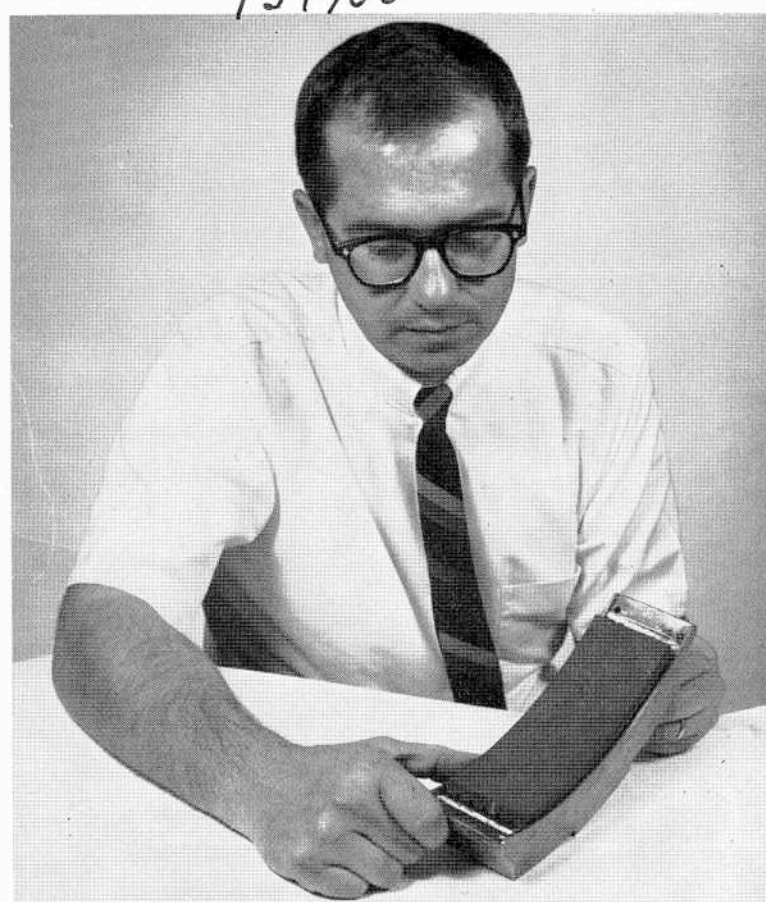
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## SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
**89 Days Or**  
**3,198,000 Man-Hours**  
(Unofficial Estimate)  
**Through December 14**  
**Without A Disabling Injury**  
**SAFETY AT HOME,**  
**AT WORK, AT PLAY**



**A. E. SANDS**, who retired recently from Y-12, was notified at his retirement dinner that he had received two patent applications. His 'Improved Method for the Manufacturing of Carbon Foam,' and 'Method for Increasing the Strength of Carbon Foam,' earned him the U. S. Government patent applications. He is seen above, at right, receiving his retirement plaque from Roy Williams, superintendent of Fabrication.



**A SINGLE, ADJUSTABLE**, Air bearing steady rest can be used to support a heavy machining fixture which is inherently stiff. The steady rest was developed at Y-12. P. E. Steger, Fabrications Systems Development, was principal developer.

## Holiday Hours For Credit Union

The board of directors of the Y-12 Credit Union has announced that the credit union offices will be closed December 25, 26 . . . and also January 1, and 2. Other than those two days, regular hours will be observed.

Also, the board has announced a nominating committee for officers for 1970. Captain M. L.

Woodard will chair the nominating committee and serving with him will be R. E. Schabot and G. C. Cook.

The annual meeting of the Credit Union will take place at 7:30 p.m., Thursday, January 22, at the Robertsville Junior High School, Oak Ridge. But more on that later.



6-14632 thru 6-14651





## Hi-Jackers Still Starlite Leaders

The Hi-Jackers still claim a two-point lead in the Carbide Starlite Bowling League, despite losses last week. The Splitters claimed two points from them and the Dynapaths took two from the Woodpeckers. The Has Beens crowned the Wild Cats for the full count.

The Thunderbirds trampled over the Jaguars for two.

Coy Harrell, Hi-Jackers, hit a 223 scratch, 248 handicap game. Howard Gerth, Woodpeckers, scored a 580 scratch series, while Lee Jackson, Wildcats, sailed through with a 660 handicap series.

The Hi-Jackers hit high in singles, 939 scratch, 1034 handicap. Their 2458 scratch series was high; but the Splitters put a 2907 handicap series up.

League standings follow:

Team	W	L
Hi-Jackers	18	6
Woodpeckers	16	8
Splitters	16	8
Has Beens	13	11
Dynapaths	12	12
Thunderbirds	11	13
Wildcats	6	18
Jaguars	4	20

## Wyatt, Brewer Lead Table Tennis

Lloyd Wyatt took the helm of the X Table Tennis League last week after a three-game win over Roy Huddleston.

Subbu Raman downed Jerry Goldstein also for three for the only action in the league.

X League standings:

Player	W	L
Lloyd Wyatt, Y-12	14	4
Herb Mook, X-10	11	5
Roy Huddleston, Y-12	13	4
Subbu Raman, X-10	9	9
Jerry Keyes, Y-12	6	6
Bill Foutz, X-10	8	7
Bill Motley, Y-12	4	11
Jerry Goldstein, X-10	1	17

Gordon Brewer held a one-point lead in the Y set as he downed Bill Bardill for three.

Ed Gambill, following closely behind, closed out Gene Zeigler for three.

Y League standings:

Player	W	L
Gordon Brewer, Y-12	17	1
Ed Gambill, Y-12	16	2
Art Weinberger, X-10	10	5
Bill Bardill, X-10	10	8
Gene Zeigler, X-10	10	8
Ram Uppuluri, X-10	3	9
Bob Smith, Y-12	0	15
Ken Toth, X-10	0	15

## Prod. Engineering Enjoy Yule Party

Product Engineering and Scheduling scheduled their Christmas Party Friday, December 5 at Beaverbrook Country Club, over Powell-way.

A host of folks showed for the dinner-dance and stayed for the festivities. Pictures to the left indicate the mood of the entire thing. Pretty ladies in pretty outfits, no?

## The Bulletin

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UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

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Member  
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American Association Industrial Editors

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## Seven Teams Still Sport Clean Records In Fast-Paced Basketball

The ORNL Spoilers opened last week's Basketball action Monday by cleaning the Quarks thoroughly . . . 69 to 27. The fast team with Robert Taylor engineering the maneuvers and Homer Tucker as fireman roared by the Quarks, left at the station. Taylor and Tucker were big guns with 20 and 18 each.

Larry De Roos tried valiantly to stop the express but help was little and late.

The Y-12 Hawks edged the Meat Loafs, ORNL, 33 to 26 in the second fight on court A. A slow moving ball game, neither team was able to generate much of an attack until the final period when the Hawks came to life. Romeo Greene found the goal for 10 points to pace both teams.

Tight Squeeze

ORNL's Aggressor's barely made it by the Y-12 Buccaneers 35 to 34 . . . an extremely rough game. Many fouls were featured. The game was tied 33-33 with the Bucs playing for the last shot with about eight seconds left. Earl Nall drove for the basket drawing a foul, and stepped to the line for one and one. He made the first, but missed the second, giving the Bucs the lead. The Aggressor's Ron Linus threw the ball from mid-court to sink the field goal for the winning points' margin!

Meanwhile on the back court, the ORNL Nads had little trouble with the Road Runners, also from ORNL, downing them 61 to 44.

Hot shooting by Tony Thomas, 20; Ed Bailiff, 17, and Jim Smith, 12; proved the winning edge.

Computes Win Big

The Computes felled the Iso-topes 62 to 33 . . . in a slow moving contest until the Computes super-sub Nathan Stonecipher came off the bench with a hot hand, tossing in some 18 points.

The Computes then dominated both boards the rest of the way.

The Beta 2 Miners beat the Bombers from ORNL 43 to 39.

John Scott's aggressiveness and marksmanship proved too much for the Bombers. Scott scored 25 important points.

## Rounders Cinch C Alley Crown!

The Rounders nailed the lid down on the C Bowling League's first half last week, with a comfortable three-point win over the Rollmasters. Also taking three were the HiLifers by the Big Five. The only four-point sweep of the day went to the Instrument Engineers by the Anodes.

The Parbusts posted three at the expense of the Sunflowers, as did the Badgers by the Fireballs. The Go Go Gophers and Royal Flush share two and face each other as 'cellar' opponents in the position roll-off this week.

A. E. Smith, Badgers, rolled a 224 scratch game . . . J. Murphy, Instrument Engineers, held handicap highs . . . singles of 250 series of 677. Bob Jago, HiLifers, hit a 574 scratch series.

The Badgers were best in singles . . . 900 scratch, 1045 handicap. The Sunflowers' skill gave them high series, 2550 scratch; and the Instrument Engineers totaled a 2964 handicap series.

League standings follow:

Team	W	L
Rounders	40	16
HiLifers	35	21
Instrument Engineers	34	22
Parbusts	32	24
Rollmasters	31	25
Badgers	31	25
Sunflowers	28	28
Fireballs	25	31
Big Five	25	31
Anodes	23	33
Go Go Gophers	21	35
Royal Flush	11	45

ORNL's Rolling Bones began action Wednesday by taming the Mod Squad 49 to 47, making a good comeback in the second half. They pulled the game out of the fire in the last minutes. Ken Bell led scoring with 19 while Dick Vaughn gave fine support on the boards.

69ers Look Good

The CC 69ers clipped the Iso-topes 63 to 29. The I team tried to slow the 69ers' attack down but to no avail as they were out-rebounded on both boards. Jim Williams and Wes Hightower couldn't miss . . . socking 20 and 18 through apiece.

The K-25 Trojans tromped over the ORNL Ail Stars in cruel fashion in the final game . . . running roughshod over the outmanned (both in height and finesse) Star team. The fast break, used to perfection, gave Tom Davis 34 of the 73 points.

On the back court, Y-12 Rats were gnawing away at their fellow plantsmen Development All Stars . . . downing them 44 to 25. Larry Jones scored 11 of the Rat's points, Tom Caudle, 10.

Chuck Beiber tallied eight of the Stars' 25 points.

Big GBU's Win

The GBU's made short work of the Butterballs, 61 to 45 in the second game. Too much speed and rebounding strength were too much for the hustling Butterballs. Larry McDonald dropped 14 through the basket, Ron Gamrot 12 for the winners.

Bobby Belt belted 17 for the unlucky cause.

Final game of the week saw the Meat Loafs win as Tom Grizzard scored only two points, but they were important ones, on a jump shot with seconds remaining in overtime.

This enabled the Loafs to post their first big victory.

League standings follow:

Team	W	L
K-25 Trijans	3	0
GBU's, Y-12	2	0
Spotters, ORNL	2	0
Aggressors, ORNL	2	0
CC 69ers, K-25	2	0
Computes, ORNL	2	0
Nads, ORNL	1	1
Bimmers, ORNL	1	1
Butterballs, ORNL	1	1
Rolling Bones, ORNL	1	1
Beta 2 Miners	1	1
Hawks, Y-12	1	1
Rats, Y-12	1	1
Quarks, Y-12	1	1
Meat Loafs, ORNL	1	2
Iso-topes, ORNL	1	3
Buccaneers, Y-12	0	2
Development All Stars, Y-12	0	2
Mod Squad, Y-12	0	2
Ail Stars, ORNL	0	2
Road Runners, ORNL	0	3

## Beavers, The Pack Volleyball Leads

Volleyball action last week left only two teams in the undefeated ranks.

The top of the league at the shank of the evening saw the Pack down the Ecobums for three. 15-0, 15-2, 15-3 and 15-7. The Blacksmiths defeated the Boomerangs 15-5, 15-12 . . . then the Boomerangs won 1510, while the 'Smiths returned to take game four 15-3. The Set-Ups sank the K-25 Gashouse Gang 15-12, 15-7, 15-8 and 15-8.

On Court B, the K-25 Hawks cleaned the Bombers 15-8, 15-6, 15-1 and 15-9. The Beavers bested the Eagles 15-0, 15-1, 15-0 and 15-10. The ORNL Old Men defeated their counterparts, the Y-12 Old Men, 15-1, 15-7, 15-2, 15-10.

Team	W	L
The Pack, ORNL	8	0
Beavers, Y-12	8	0
Set-Ups, ORNL	6	2
K-25 Hawks	6	2
Old Men, ORNL	6	2
Ecobums, ORNL	4	4
K-25 Gashouse Gang	4	4
Eagles, Y-12	2	6
Blacksmiths, ORNL	2	6
Boomerangs, ORNL	1	7
Beta 4 Commodores	0	4
Y-12 Old Men	0	4



**VETERAN TEAMS** in the Classic Bowling League line up for recent action. In the top picture are the Splinters . . . Frank Thurman, George Reece, Manfred Bayes, Elmer Johnson, captain; and Harry Keene. In the lower picture are the Rippers, Jay Holzkecht, captain; Bill Fleischmann, Paddy Peckman, Nelson Tibbatts and Wayne Groppe.

## Markers Nail First Half Honors Down As Classic League Nears End

With still another night to roll in the first half, the Markers nailed the lid on the Classic Bowling League last week by downing the Bumpers for three points, staying a good nine and one-half points out front.

Posting four were the All Stars by the Has Beens, the Rippers by the Splinters, the Cubs over the Rebels and the Swingsters by the Eightballs. The Eagles also

claimed four from the Smelters.

Sharing two were the Tigers and the Playboys, the Pinbusters and the Screwballs.

Frank Adams, Playboys, WOW!, rolled a 257 scratch, 274 handicap game! His 646 scratch, 697 handicap series was, naturally, high also.

The Playboys, Tigers and Markers, all with 907, shared scratch single honors. The Tigers' 1061 handicap was high. In series it was the Swingsters with 2632 scratch; the Playboys with 2954 handicap.

Team	W	L
Markers	43½	12½
Rebels	34	22
All Stars	32½	23½
Rippers	32½	23½
Tigers	31	25
Cubs	30	26
Swingsters	29½	26½
Has Beens	28	28
Pinbusters	27½	28½
Playboys	27	29
Screwballs	26½	29½
Eightballs	24	32
Bumpers	24	32
Splinters	23	33
Eagles	20	36
Smelters	15	41

## B Shift Sets Turkey Shoot Saturday Here

B Shift is supporting another Turkey Shoot, aimed at the Oak Ridge Sportsman's Association range this Saturday, December 20. The first of 15 relays will be fired at 9:30 a.m., 25 firing in each relay. Two winners from each will see 30 turkeys go for the holidays.

Ammo is furnished in the 12, 16, 20 gauge only firing, and shots are 50 cents per.

If you're not doing anything Saturday morning, go on out and try your skill, or your luck, whichever you think is best.

## Goofers Eke Out Early Mixed Crown

The Goofers claimed the first half title in the Mixed Bowling League last week by a scant half point . . . but a half-point is good as a half-mile! Both top leaders took three points from opponents, as the Goofers defeated the Hits & Misses and the Alley Cats dropped the Twisters.

The Spare Parts polished off the Rollers for four, and the Mustangs took the Roses 'N Thorns for three.

Fred Hammond, Goofers, took all top honors, rolling singles of 224 scratch, 247 handicap; series of 577 scratch, 646 handicap. Dora Ely, Mustangs, rolled a 192 scratch, 245 handicap single; series of 453 scratch, 612 handicap.

The Goofers in gaining the top berth in league standings rolled team highs of the night, singles of 664 scratch, 795 handicap; series of 1915, 2308.

Team	W	L
Goofers	34½	21½
Alley Cats	34	22
Spare Parts	31	25
Roses 'N Thorns	29	27
Mustangs	26½	29½
Rollers	25	31
Hits & Misses	24	32
Twisters	20	36





**CLEANING A MOON BOX . . .** C. H. McCallister uses a fluorescent light and a needle-sized vacuum cleaner to remove lint particles from an Apollo moonbox. The cleaning operation is one of a series of pre-flight decontamination steps to assure that there was no earth dirt in the box to contaminate soil samples obtained from the moon.

## Cleaning Moon-Boxes For Apollo 12 Flight To Moon Is Done In Y-12

Y-12 has performed the cleaning of the Sample Return Containers and various tools to be used by Apollo-12 astronauts in returning geological samples from the moon.

Four containers were cleaned for the Apollo-12 mission. Two were aboard the Lunar Module and two were available for back-up.

The cleaning operation was performed in a super clean room facility equipped with absolute filters and an airflow system that permits some 386 air changes per hour. The equipment was cleaned by immersing it in a series of vats equipped with ultrasonic energy and high purity solvents removed tiny, hard-to-reach dirt particles and organic

contaminants that might interfere with an accurate appraisal of moon samples.

The containers were cleaned to less than 10-billionths of a gram of matter per square centimeter of surface — equivalent to the amount of material found in a few fingerprints on an area the size of a football field.

After being hermetically packaged, the Sample Return Containers were sent to the Lunar Receiving Laboratory, Manned Spacecraft Center, Houston, Texas for final flight preparation.

Y-12, which also designed and fabricated the containers, performed the cleaning for the National Aeronautics and Space Administration under an inter-agency agreement with the U. S. Atomic Energy Commission.



A score or more of Y-12ers mark important dates during the Holiday Season, treading on milestones with Union Carbide Corporation. Congratulations.

### 25 YEARS

**Clarence H. Crockett**, Buildings, Grounds and Maintenance Shops, December 18.

**Eschar M. Baird**, Utilities Administration, December 18.

**Ralph L. Johnson**, Guard Department, December 18.

**William C. Hudson**, Instrument Engineering, December 18.

**Elbert Scott**, Guard Department, December 21.

### 15 YEARS

**George W. Holbert**, Utilities Administration, December 17.

**George R. Myers**, Buildings, Grounds and Maintenance Shops, December 20.

**Paul F. Meredith**, Ceramics and Plastics Development, December 20.

**Robert L. Oswald**, Process Maintenance, December 20.

**Ned O. Patty Jr.**, Dispatching Department, December 21.

**Lige M. Gibson Jr.**, Beta Four Forming, December 22.

### 10 YEARS

**Seldon J. Cox**, Dimensional Inspection, December 21.

**John H. Nageotte**, H-2 and F-Area Shops, December 21.



**Ride wanted from Route 1, Philadelphia, Tennessee, to East Portal, straight day.** J. F. Blount, plant phone 3-5095, home phone Philadelphia 458-2952.

**Ride wanted from Euclid Circle, East Village, Oak Ridge, to East Portal, straight day.** G. E. Bennett, plant phone 3-7705, home Oak Ridge 482-2775.

**Ride wanted from Clinton Highway (Claxton area) to North Portal, straight day.** Sharon Clapp, plant phone 3-7133, home phone Claxton 945-3565.

## Monthly Salaried Pay-Day Is Early

The Paymaster says that payday will arrive just a mite early this month for monthly-salaried employees . . . a week early to be exact. Employees who pick up their checks may do so Friday, December 19.

Folks banking by mail will also receive their receipts back from the banks early, too.

## Machining System

Continued from Page 1  
the fixture running surface. The fixture rides on a 300-400 micro-inch thick air cushion (a micro-inch is one millionth of an inch).

The steady rest system may be utilized as a single, adjustable pad to support heavy machining fixtures which are inherently stiff, or may be employed with up to four adjustable pads to support large, but relatively light weight, fixtures that lack stiffness.

Y-12, one of the four installations operated by Union Carbide's Nuclear Division for the U. S. Atomic Energy Commission, developed the new system as part of a continuing research program to upgrade the quality and efficiency of machine tools used in the plant.

**UNION CARBIDE CORPORATION**  
NUCLEAR DIVISION  
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**A PLAQUE** struck in memory of Prince Henry, born in 1394 in Portugal, was presented to Gus Angele recently by the Portuguese Ambassador to the United States. The beautiful bronze plaque was presented for Angele's 22 years efforts in the U. S. Power Squadron's educational efforts. Prince Henry was the founder of the first navigation school and is known as the father of modern navigation.



**A Y-12ER GUS ANGELE** is honored for his long service in the educational efforts of the U. S. Power Squadron. Angele, third from left, is a charter member and district education officer of the Oak Ridge Unit. From left are Thomas Kane, district commander; Portuguese Ambassador to the U. S.; Angele, and Commander Jose Cabral, now retired from the Portuguese Navy, often called the 'Lindberg of Portugal.'

## Gus Angele Awarded Bronze Medal For Power Squadron Education Efforts

G. J. Angele, Engineering Mechanics, has long been active in the Oak Ridge Unit of the U.S. Power Squadron. A charter member, Angele is district educational officer, and has held many posts in the local unit.

For his long years of service, and his educational efforts in behalf of the USPS, Angele was recently honored by the Portuguese government. Called to the Ambassador's office in Washington, D.C. he was presented the Prince Henry medal.

Prince Henry, born in 1394, in Portugal, was the founder of the first navigation school and is known as the "father of modern navigation." A man who devoted his life to the "discovery of the secrets of the Atlantic and to the

opening of the sea routes of the world," the scholarly prince also perfected the first nautical instruments and charts.

The medal, named in honor of the Portuguese prince, honors the educational leader in power squadrons each year.

## 'Martian Winds' Is Physics Seminar Topic

Frank A. Gifford, Atmospheric Turbulence and Diffusion Laboratory, Environmental Science Services Administration, will discuss "Martian Winds," at this week's Physics Division seminar.

The seminar is set for Friday, December 19, at 3:15 p.m. in the East Auditorium of ORNL's 4500-N building.

## Recreation



### Saturday, December 20

**TURKEY SHOOT:** 9:30 a.m. Oak Ridge Sportsman's Range, 50¢ per shot, sponsored by B Shift.

### Monday, December 22

**BOWLING:** C League, 5:45 p.m., Ark Lanes.

**TABLE TENNIS:** 7 p.m., Wildcat's Den.

### Tuesday, December 23

**CHRISTMAS PARTIES:** 8:30, 10:30 a.m.; 12:30, 2:30, 4:30 and 6:30 p.m. All Carbide Kids between ages of two and 10. Oak Ridge High School Auditorium.

**BOWLING:** Carbide Starlite League, 8:30 p.m., Starlite Lanes, Knoxville.

### Thursday, December 25

**CHRISTMAS:** Holiday for Y-12ers.

## 15 Minutes Early For Christmas Parties

The Recreation Department urges parents to bring children to the parties next Tuesday about 15 minutes early. This will give you time to park and walk to the Oak Ridge High School Auditorium.

Tickets are required for both adults and children at the 8:30, 10:30 a.m., 12:30, 2:30, 4:30 and 6:30 p.m. parties. Have a good time!

## Area Coon Hunters Organize Saturday

C. E. Phillips, Electrical, is seeking people in this area interested in joining the Cumberland Mountain Coon Hunters Club. The organization will hold its first meeting Saturday, December 20 at 2 p.m. at the Laurel Grove School House Community Center, Highway 116, eight miles from Lake City, eight miles from Oliver Springs.

The CMCHC will seek to stock coons in the mountain area of Lake City, Oliver Springs, Petros, New River, Beech Fork and Caryville. They will need about four assistant game wardens to protect the game that is stocked.

Membership, says, Phillips, is \$10 to join and \$5 per year. All coon hunters in this area are invited to join. More information may be obtained from Phillips, at his Lake City home 426-2904.

## It's Later Than You Think Says P.M.

"It's later than you think," muses Oak Ridge Postmaster Van D. Hicks. A Christmas reminder went out last week as the Post Office announced longer window hours during the holidays. The Post Offices in Downtown and Jackson Square will stay open Monday through Saturday, from 8 a.m. to 6 p.m. The postmaster also added that lines were shorter between 9 and 11 a.m. and 2 p.m. and 4 p.m.

Mail early, and please . . . ZIP CODES, asks the pm.